REPORT

OF THE

AUCKLAND INSTITUTE,

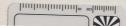
THE YEAR ENDING FEBRUARY 19, 1872.

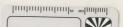
Adopted at the Annual Meeting held May 13, 1872.

AUCKLAND:

Printed at the Daily Southern Cross Office.

1872.





REPORT

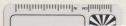
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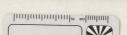
AUCKLAND INSTITUTE

THE YEAR ENDING FEBRUARY 19, 1872.

Adopted at the Annual Meeting held 13th May, 1872.

 $\frac{AUCKLAND:}{\text{Printed at the Daily Southern Cross Office.}}{1872.}$





1872.

OFFICERS

The Buckland Institute.

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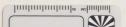
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TINNE, T. F. S., Esq.

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> Auditor: C. TOTHILL, Esq.



The following Magazines and Periodicals are circulated amongst the Members:—

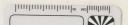
Quarterly Journal of Microscopical Science.
Quarterly Journal of Science.
Nature.
Geological Magazine.
Lancet.
The Academy.
The Academy.
The Garden.
Botanical Magazine.
Gardener's Girmiele.
Mechanics' Magazine.
Scientific American.
Chemical News.
Popular Science Review.
Engineering.
Journal of Botany. &c. &c. &c.

Winter Session, 1872.

Meetings will be held on the following Monday Evenings :-

June 24. August 19. September 22. October 14.

To Commence at 7.30 p.m.



REPORT.

DURING the fourth year of the existence of the Auckland Institute the general interest in its work has continued unabated, and the Council has pleasure in being able to point to a few indications of progress amidst circumstances calculated to cause discouragement.

The third volume of the "Transactions of the New Zealand Institute" has been supplied to the members free of cost, and has excited considerable interest throughout the Colony. The Council gladly acknowledges the great importance of the yearly volume, the joint production of the various societies affiliated with the New Zealand Institute, in promoting and maintaining an interest in the progress of science.

Seven meetings have been held during the past year, at which business relating to the progress of the Institute has been freely discussed, and the following papers have been read:—

- 1. On the Cryptogamic Botany of the Auckland Isthmus;—by T. Kirk, F.L.S.
- 2. On the occurrence of Footprints of the Moa at Poverty Bay;—by Archdeacon W. L. WILLIAMS.
- 3. Notes on the Discovery of Footprints of the Moa at Poverty Bay;—by T. B. GILLIES.
- 4. Notes on a New Locality for the Tuatara; also on a Variation of the Egg of the North Island Kiwi;—by T. Kirk, F.L.S.
- 5. On the Alluvial Deposits of the Lower Waikato;—by Capt. F. W. Hutton, F.G.S.

- 6. On the substitution of Vulgar Fractions for Decimals in the Compilation of Mathematical Tables;—by J. R. Preece.
- 7. On the Nativity of Polygonum aviculare in New Zealand;—by T. Kirk, F.L.S.
 - 8. On Eclipses ;-by T. Heale.
- g. A Description of a Simple Form of Rain Guage;—by Archdeacon W. L. WILLIAMS.
- 10. On Megapodius Pritchardii;—by Captain F. W. Hutton, F.G.S.
- 11. On the Botany of the Titirangi District;—by T. F. CHEESEMAN.
- 12. On the New Zealand Asteliads ;-by T. KIRK, F.L.S.
- 13. Description of a Mode of Communication between a Station on a Line of Railway and a Train in Motion on the same Line;—by G. RAYNER.
- 14. An Account of the Foundation of the Lighthouse in the Punui Passage;—by J. Stewart, C.E.
- 15. A Comparison of the Indigenous Floras of the British Islands and New Zealand;—by T. Kirk, F.L.S.
- 16. On the Local Distribution of certain Plants common to the British Islands and New Zealand;—by T. Kirk, F.L.S.
- 17. Notes on a Thermal Spring near Helensville;—by ROBERT MAIR.
- 18. On the New Zealand Pittosporads; -by T. Kirk, F.L.S.
- 19. On the Defence of Auckland Harbour;—by S. J. STRATFORD, M.R.C.S.C.
- 20. On the Habit of Growth of the Rata (Metrosideros robusta);—by T. Kirk, F.L.S.
- In July the Council resolved to have the Museum and Library lighted with gas, and kept open to the public until 9 p.m. on every Wednesday; this step has been attended with good results in increasing the number of visitors, and widening the circle of those interested in the maintenance of a Public Museum.

The serious disadvantages under which the Institute labours from the dilapidated and unprepossessing appearance of the building has long occupied the attention of the Council. In June last it was found absolutely necessary to take down a large portion of the old building, and the Council determined to make an effort to procure funds for erecting the first portion of a suitable structure for a Public Museum and Free Library. It was proposed in the first instance to utilise rather less than one-half the site by erecting thereon a galleried building extending from Princes Street to the rear, making the necessary provisions for the future adoption of the permanent level of the street, and leaving the actual construction of the galleries for a future time. This building would have formed a portion of one design for the entire site, and was estimated to cost in the first instance about £2,500.

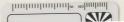
With a view to more efficient action towards obtaining the necessary funds, it was determined at a general meeting to increase the number of members of the Council to eleven, when Dr. J. L. CAMPBELL, Mr. T. RUSSELL, and Mr. J. M. CLARK were elected. A printed circular was issued, and a canvas for subscriptions commenced. The late Dr. STRATFORD at once liberally promised £100 on condition of the sum of £400 being raised in amounts of not less than £50; and on his lamented decease it was found that the promise had been confirmed by bequest.

It was speedily found that there was a decided opinion amongst the friends of the movement, whether members of the Institute or not, that the large donations required could not be reasonably expected, unless the Provincial Government would supplement the contributions of private individuals. Application was therefore made to the Provincial Executive to place the sum of £1,000 on the Estimates for the Session, as a grant in aid of the fund. This application was acceded to on condition that at least an equal sum was raised by private subscriptions, and on this understanding liberal promises of subscriptions were obtained. Dr. STRATFORD's bequest would have been assured, and the whole of the money required by subscription for the first part of the building obtained, but for the unfortunate refusal of the grant in aid by the Provincial Council; and although an attempt was made to meet the views of its opponents, by an arrangement to secure the substantial brick building used as the Wesleyan Chapel in High-street, a second effort to obtain the necessary support was frustrated by a small majority.

It is not the place of the Council to point out the causes which led to the refusal of the grant; but it must be evident that the loss of Dr. Stratford's liberal bequest, and of the handsome subscriptions by which it was secured and supplemented, must seriously affect any future attempt to collect a Building Fund. In the Southern Provinces buildings for Public Museums are creeted, and the expenses of their maintenance defrayed by the respective Provincial Governments. In Auckland the Institute has failed to secure the support of the Provincial Councial in supplementing the contributions of its inhabitants towards this object.

But it is obvious that the question of new buildings cannot remain in its present position; the Institute must either abandon the attempt to carry out the purely public objects of a Free Library and Museum, from its unaided resources, or suitable buildings must be erected; and the Council would earnestly recommend that a renewed effort be made to procure a grant in aid of the Building Fund during the coming session of the Provincial Council.

The Council desires to place on record the high sense it entertains of the unwearied efforts of the late Dr. STRATFORD to promote the welfare of the Institute from its formation, and of his munificent offer in aid of the projected Building Fund.



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As on previous occasions, the Council has to acknowledge with pleasure numerous and valuable donations to the Library and Museum, especially that of a large number of valuable works from Captain F. W. HUTTON, F.G.S., whose removal from the province is a serious loss to the working power of the Institute.

Owing to a misunderstanding respecting the apportionment of the Provincial grant referred to in the last Report in aid of the Museum and Library, some delay has resulted in the purchase of the selected books and special objects for the Museum. Eighty volumes have, however, just been added to the Library from this source, and the purchases for the Museum are now on their way from England.

The Council would again request the assistance of the members in furthering the interests of the Institute, by advocating its objects in their circle of friends; by contributing records of observations of natural phenomena, or of critical investigations to be read at its meetings; by donations to the Library and Museum; or by such other mode as may conduce towards these desirable ends. Few institutions are so well calculated to advance the diffusion of knowledge, and to promote alike, pure taste, intellectual pleasure, and material advancement, as those which this Institute seeks to establish in Auckland—a Pree Public Library and Museum.

May 13, 1872.

The Auckland Institute in account with J. Kirk, Greasurer, FERRIARY 21, 1871, TO FEBRUARY 19, 1872.

Dr. FEBRUARY 21, 1871, TO FEBRUARY	Cr.
Subscriptions and Entrance Fees	ects for Museum
BUILDING FUND AC	COUNT.
To F. Larkworthy, donation 10 0 0 By Ca	sh deposited in Bank of New Zealand 10 0
INVESTMENT ACC	OUNT.
To amount brought forward 10 10 0 By Ca	sh deposited in New Zealand Savings Bank 10 14
,, Interest allowed by New Zealand Savings Bank 0 4 4	

Having duly Audited the above Balance Sheet, I find the same to be correct.

G. B. Owen.

THE LIBRARY AND MUSEUM.

Wilson and Bonaparte's American Ornithology, 4 vols.—Dr. Horne, Chambers' Ancient Sea Margins—E. B. Dickson.
Philosophical Transactions, 2 vols.—J. George.
Trimen's Catalogue of South African Butterflies, part 1—Dr. Horne, Trimen's Catalogue of South African Butterflies, part 1—Dr. Horne, Trimen's Catalogue of South African Butterflies, part 1—Dr. Horne, Trimen's Catalogue of South African Butterflies, Priestley's Lectures on History—J. O'Neill' Transactions of the Royal Society of Victoria, Vols. II, to IX,—From the Secretary.
New Zealand Dictionary—Archdeacon W. L. Williams.
Publications of the Museum of Comparative Zoology, of Harvard College, Cambridge, Mass.—Professor I. Agassiz.—
I. Hlustrated Catalogue, Nos. 1, 2, and 3.
II. Bulletin, Vols. I., II, and part I of Vol. III.
Horney Cambridge, Mass.—Professor II, 2 and 3.
II. Bulletin, Vols. I., II, and part I of Vol. III.
Flore Trees suitable for Cultivation in Victoria—Baron Ferd V. Mueller, C.M.G., &c.
Smithsonian Report, 1869; Congressional Directory of the United States—The President of the Smithsonian Institute.
Catalogue of New Zealand Baris, by Capt. F. W. Hutton, F.G.S.; Meteorological Report, 1870; Reports of Geological Explorations, 1871; Third, Fourth, and Fifth Reports of the Colonial Museum and Laboratory—The Director of the Geological Survey Department. ment.

Woodville's Medical Botany and Supplement—Dr. Horne. Railway Map of India—J. Wright. Durham's Midwifery Engravings—Dr. Horne.

From the Trustees of the Public Library, Museum, and National Archer's Statistical Notes, from US35 to 180, Archer's Statistical Notes, from US35 to 180, Statistical Register of Victoria, Sir Redmond Barry's Addresses, Melbourne, Catalogue of the International Exhibition, 1862. Fairfax's Hand Book to Australasia. Goldfields of Victoria, 1862. Lectures delivered in the Lecture Room of the Melbourne Museum,

Leichardt's Travels in Australasia.

Neumayer's Meteorological Observations, 1 vol. Report of the Trustees of the Public Library, Museum, and National Gallery, 1870-71.

The New Zealand Hansard, 1871. Parliamentary Papers, Journals, and Reports-The Colonial Secretary.

From Captain F. W. HUTTON, F.G.S. Muspratt's Chemistry applied to the Arts and Manufactures, 2 vols.

Arts, Manufactures, and Machinery, Barlow and Babbage.

Worcester's English Dictionary, Lyell's Principles of Geology, 2 vols.

Intellectual Osserver, 2 vols.
N.Z. Parlimentary Reports, 7 vols.
Chemical Analysis Quantitative, Fresenius.
Qualitative
Buckland's Gology and Mineralogy, 2 vols.
Geissen's Outlines of Chemical Analysis.
Owen's Palisontology.
Mantell's Medials of Creation, 2 vols.
Kirly and Spence's Entomology.
Mill's Political Economy. Agassiz and Gould's Comparative Physiology. Parke's Elementary Chemistry. Schows' Earth, Plants, and Man Williams' N.Z. Dictionary. Lardner's Microscope. Liebig's Agricultural Chemistry. Scoffern's Chemistry of Soils. Johnston on the Use of Lime in Agriculture. Burnett's Limes, Cements, Mortars, &c. &c. Prideaux's Treatise on Fuel. Findaux's 1 Gaussian Streeying,
Baker's Land Streeying,
Lamborn's Metallurgy of Copper,
Barry's Treatise on the Construction of Roofs,
Heather's Treatise on Mathematical Instruments,
Burgoyne's Treatise on the Basting and Quarrying of Stone.

Kauri Gum, in Veins in Clay—H. A. Mair. Lignite, Coal Shale and Coal, Poverty Bay—Major Mair. Impressions of Moa Footprints, Poverty Bay-T. B. Gillies 20 Casts N.Z. Reptilian Remains-The Director of the Colonial Museum. Limestone Concretions with Shells—G. Ross, jun.
Ironstone found North of the Waitemata and Manufactured Iron—

Sulphate of Lime, White Island—J. O Neill.

Sulphate of Lime, White Island—J. O Neill.

Fossils and Rock Specimens—G. Ross, jun.

Fossils, East Coast—Archdeacon W. L. Williams.

Quartz Crystals with Gold, Manukau Claim—— Cook per T. B.

Gillies.

Slitchied Wood—A. Vilcoq.

Lupare Sclenite, Thames—T. B, Gillies.

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3 Models Eggs of the Moa; 2 ditto of the Apteryx—The Director of the Colonial Museum. Moa Bones, from Turanganui—Archdeacon W. L. Williams. 2 Rock Specimens—The Hon. H. Chamberlin. Metallic Arsenic, Coromandel—E. B. Dickson. Metallie Arsenic, Coromandel—E. B. Dickson.

3 Rock Specimens, Chathan Islands.— Ritchie.

Retinite, Hikurangi Coal Mine—R. Mair.

5 Specimens Arsenic, richly impregnated with Gold—The Directors
of the Tokatea Goldmining Company.
Alluvial Gold; Native Platinum—D. L. Murdoch.

Ruby Copper; Vitreous Copper; Nephrite, Great Barrier Island—
T. Heale.

T. Heale. Sclenite—Dr. Stratford. Brown Hematite, Kaipara—W. J. Palmer. Crystallized Limestone, and other Rocks—T. Russell. Two Auriferous Specimens—C. Tothill. Specimen of Mangawai Building Stone—P. A. Phillips. Stalactites, Whangarei—H. A. H. Munro.

Skin of Wild Dog, Kaipara.—E. and J. Coates.
100 Queensland Bird Skins, and two cases Queensland Insects.—
Presented by special subscription from Messrs. Gillies, Firth,
Wright, Heale, Mackelvie, Russell, J. Farmer, G. B. Owen
and Wardres Stokesii.—The Director of the Colonial Museum.
1 Skin Graculus carboides; 2 ditto Graculus varius.—Dr. Fox,

Shortland 2 Eggs Æstrelata Gouldii ; 4 ditto Larus scopulorum- - Wardell,

Skin of Large Tern—— Madden, Grahamstown.
Skin of Prion Bauksii.—Rev. A. G. Purchas.
Eggs of Ocydromus Australis, Coturnix Nova-Zelandiæ, Zøsterops
lateralis, Charadrius bieinetus.—The Director of the Colonial

Museum
Skins of Albatross and Cape Pigeon—J. Ariel.
1 Parroquet, set up—— Ross.
Skin of Ossifraga gigantea—Captain Johnston.

Solenognathus Spinosissimus, and Ovarian Porpoise.—A. Vilcoq. Serpent Eel, Port Charles.—J. Marsh.

3 Mud Fish, Neochana apoda.—D. L. Murdoch.
Pipe Fish.—J. Matthews.
Small Shark.—IV. Organish.
Popilis, Sand Worm, Ohiwa.—Major Mair.
Helix Babyli, &c.—B. Cornish.
Phasianella, and other Shells.—— Wardell, Kitakita.
Shells and Girrhipedes, Bay of Islands.—J. K. Davis.
Naultinus elegans, var.—D. M. Beere.
Echinus, Pacific Islands.—D. Wright.
Cirrhipedes, Ourakei.—C. Saunders.
So New Zealand Shells.—The Director of the Colonial Museum.
A Large Prawn captured at sea; A Spider, Honolulu.—H. A. Mair.
New Zealand Shells.—Ch atthews.
New Zealand Shells.—Ch Atthews.

3 Lizards, &c.—C. O. Davis.
A Katipo—H. A. Mair.
Vegetable Caterpillars and Insects—R. Mair.
A Weta—— Hopkins.
Centipedes—Dr. Lee
Centipedes—Dr. Lee
Centipedes—H. A. Mair.
Centipedes—J. Wilson, Tamaki.
Dried N.—Alaris—Major Mair.
Dried N.—Alaris—Major Mair.
Tanakaha Gum—The late Dr. Stratford.
Dried New Zealand Plants—T. Kirk, F.L.S.

Maori Cranium—T. Macffarlane.
,, showing recovery after a severe wound—Rev. P. H. " Cornford. Jaw Bones and Teeth of Sperm Whale ; Antlers of Hog Deer, India

A

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-G. B. Ower Head of Sword Fish-Major Mair.

Head of Sword Frah—Major Marr.

Stone Adze — Wardell, Kitakita.

Fijian Arrows—F. J. Moss.
Cingalese Umbrella; Arab Flour Basket; Shell Bracelet, Spear,
Paddles, &c—J. O. Neill.
Greenstone Adze—G. Ross, jun.
African Native-manufactured Coth—J. T. Mackelvic.
African Native-manufactured Coth—J. T. Mackelvic.
Techt, Solomon Islands—J. Vilcoq.
Carved Maori Image—H. A. Mair.
2 Stone Adzes—J. Meiklejoln, Omaha.
Governor Hobson's reply to the Congratulatory Address of the
Settlers at Kororarkis, being the first State Paper issued in the
Colony—The Hon. D. Pollen.
Two American Bank Notse printed by Benjamin Franklin—Dr.
Wright.
Samples of Raw and Refined Sugar, manufactured at Milford Plantation, Port Macquarie—Captam Breton.
Silk Grown at Epsom—R. Courtenay.
Confession of Fatth, a black letter copy, formerly belonging to Neill
Grow—J. C. McLoot.

Contession of Fatth, a black letter copy, formerly belonging to Neill Gow—J. C. McLeod.
Unsentched Throe Flax, from Brunton's Mill, Hawke's Bay—Archdeacon W. L. Williams.
Model of Mita; ditto of Hei Tiki—The Director of the Colonial

Museum.

Museum.
Wood Perforated by Teredines—H. A. Mair.
Magnesium Wire—The late Dr. Stratford.
Wood-section from Old London Bridge—W. J. Palmer.
Bladder of Porcupine Fish—H. A. Mair.

In Scales 21

AUCKLAND INSTITUTE

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— Barber, W. B., Devonport
— Barstow, R. C., Bay of Islands
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— Breton, Captain F. G., Auckland
— Brucklafd, F. M. P., Auckland
— Bruce, Rev. D., Auckland
— Bruce, Rev. D., Auckland

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Buchanan, Jas., Auckland

Buchanan, Jno., Auckland

Buckland, J. S., Auckland

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—Chapman, G.T., Auckland
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—Clark, J. M., Auckland
—Clarke, H. T., Tauranga
—Cochrane, S., Auckland
—Codrington, Rev. R. H., Norfolk
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Island

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Davy, G. B., Shortland
Dawson, F. W. H.,
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- Earl, W., Remuera

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Auckland Gittos, B., Auckland Goldsboro', C. F., M.D., Auck-

land

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Haultain, The Hon. Colonel
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Heaple, T., C.E., Auckland
Heaple, C., V.C., Major A. R.V.
Henderson, T., jun, Auckland
Hill, W., jun, Auckland
Hill, W., jun, Auckland
Hobbs, R., Auckland
Hobbs, R., Auckland
Hunt, W. A., Remuera
Hutton, Captain F. W., F.G.S.
Wellington

Wellington

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Kinder, Rev. J., Auckland
Kindoh, E., Otahuhu
Kirk, T., F.L.S., Auckland
Kissling, G. S., Parnell

Іппіншішнішім мэіппіші

16

— Larkworthy, F., London
— Lee, W., M.R.C.S. E., Auckland
— Phillipson, T., Auckland
— Pollen, the Honourable D.,
M.D., Te Whan
— Purchas, Rev. A. G., M.R.C.S. E.
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- Macfariand, R. J., U.D., Ura-hamstown, T., Auckland
- Mackland, R., Auckland
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- MacKeelmie, E. A., Auckland
- MacKellar, H. S., Auckland
- Mackelvie, J. T., Auckland
- Mackelvan, B., Tamaki
- MacLean, The Honourable D.,
Vanice

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Manusell, The Ven. Archdeacon,
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Morrin, H. A. H., Auckland
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Peacock, T., Auckland
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Phillips, C., Auckland

Rapson, S., Auckland Roberton, J., Auckland Russell, T., Auckland

Sheehan, J., Auckland Sheppard, A. M., Whangape Shera, J. M., Auckland Sieclair, A., Auckland Siewart, J., C.E., Auckland Stewart, J., C.E., Auckland Stewart, T. M., Auckland Stewart, S. M., Auckland Stewart, S. M., Auckland Stewart, S. M., Auckland Stewart, S. M., Auckland

Thorne, G., jun., Auckland Tinne, T. F. S., Auckland Tothill, C., Auckland

Vilcoq, A., Russell Vogel, The Hon. J., Wellington Von der Heyde, G., Auckland

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South Wales

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Waynouth, J., Grahamstown

Wayte, E., Andekland

Weston, T. S., Anckland

Withan, S., Anckland

Whitaker, F., Anckland

Will, W., Anckland

Williams, H., Bay of Islands

Williams, H. Pay of The Ven. Archdeacon

Williamson, The Yon Archdeacon

Williamson, The Hon. Jas., Anckland

Wilson, W. C., Auckland Wright, F. W., L.M.B. Toronto, Auckland

-Wrigley, J., Auckland

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